

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO./TASK NO.	JOB ORDER NUMBER	APPROV. FY
QSS Group, Inc.	NAS5- 99124 175 AMENDMENT	563-225-11-15-89	00

TASK TITLE: (NTE 80 characters; include Project name)
50 Ah NiH2 Terra Cell Anomaly Investigation

APPROVALS: (Type or print name and title)			
ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)	DATE	ORG CODE	MAIL CODE
Gopal Rao <i>[Signature]</i>	11/22/99	563	563
Marlon Enciso <i>[Signature]</i>	11/23/99	563	301-286-5845
CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)	DATE	CODE	PHONE
Robert S. Lehair, Jr. <i>[Signature]</i>	11/29/99	560	301-286-6588
FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE? (If YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)	CONTRACTING OFFICER'S QUALITY REP.		DESIGNATED FAM:
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)
C.O. Requested Quote on:
Date: **DEC - 6 1999**

Contractor will develop specification or statement of work under this task for a future procurement. ☒ NO ☐ YES

Flight hardware will be shipped to GSFC for testing prior to final delivery. ☐ NO ☐ YES ☒ N/A

Government Furnished Property/Facilities: ☐ NO ☒ YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: ☒ NO ☐ YES If yes: ☐ TOTAL ☐ PARTIAL
 If partial, indicate onsite work in SOW by asterisk (*)

Surveillance Plan Attached: ☒ NO ☐ YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)
 The effective date of this task order is December 17, 1999.

INCENTIVE FEE STRUCTURE (check one)

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<input checked="" type="checkbox"/> No. 1	No. 2	No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ 20,732.

The target fee of this task order is \$ 160.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 20,892.

The maximum fee is \$ 234.

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

[Signature] **12/17/99** **Lorrie L. Eakin**
 SIGNATURE OF CONTRACTING OFFICER DATE TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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QSS Group, Inc.	NAS5- 99124	175	

Applicable paragraphs from contract Statement of Work: Function 2.D.7

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

The contractor shall provide facility, support and services to perform the investigation on the cause of second plateau in 50 Ah NiH₂ Terra Spacecraft flight batteries' cells.

GSFC shall provide a total of six cells for this study; three (3) cells from workhorse battery pack, one (1) from GSFC Battery Lab testing cells, one (1) cell from Lot 2 in cold storage at COMSAT and one (1) cell from EOS-AM-1 Stress Pack at COMSAT.

The contractor shall perform following tests:

- Perform Electrical Characterization,
- Perform Oxygen Chemisorption study on one (1) cell,
- Perform 500 Stress cycles on one(1) cell,
- Perform Gas Analysis prior to the Cell Teardown,
- Analyze Positive Plate Utilization and Positive Precharge, and
- Analyze Electrolyte Concentration.

The contractor shall notify the ATR of any cell failure within 48 hours of such a failure.

The contractor shall prepare a corrective action plan after such a failure, and submit it to the ATR within 72 hours of the failure.

The contractor shall fax (301-286-1751) a typical orbit data weekly to the ATR only for Stress Test.

The contractor shall inform the ATR in advance (three days prior to cell tear down) by phone at (301)286-6654 and email to the address gopalakrishn.m.rao@gsfc.nasa.gov

Upon completion of the study, the contractor shall submit a final report to the ATR within 21 days.

PERFORMANCE SPECIFICATIONS:

All plans and testing under this task are to be produced and performed using aerospace cell testing standard.

APPLICABLE DOCUMENTS:

Terra Cell Anomaly Study Test Plan by Gopal Rao, Code 563, GSFC dated November 22, 1999 (copy attached).

TASK END DATE: ~~2/29/00~~ 3/31/00**MILESTONES/DELIVERABLES AND DATES:**

A typical orbit data only for Stress test	Weekly
Status Report	Bi-weekly
Cell Failure Notification	Within 48 hours of such a failure
Corrective Action Plan	Within 72 hours of the failure
Final Report	Within 21 days of the completion of testing

PERFORMANCE STANDARDS:

Schedule:	On-time delivery of the above
Technical:	ATR's acceptance of the above

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Gopal Rao, building 20, room 166